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TCS-80046/65

December 1964

PHOTOGRAPHIC INTERPRETATION REPORT

OAK
MISSION 1015-1
20-24 DECEMBER 1964



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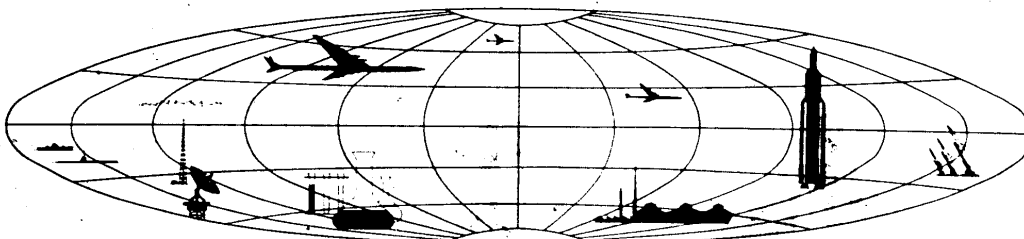
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MISSION 1015-1, 20-24 DECEMBER 1964

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OAK MISSION 1015-1

PREFACE

THIS IS THE FIRST AND ONLY OAK REPORT ON MISSION 1015-1 AND PROVIDES INFORMATION ON THOSE COMMITTEE ON OVERHEAD RECONNAISSANCE (COMOR) TARGETS OBSERVED ON THE PHOTOGRAPHY. COMOR TARGETS OBSERVED ON MISSION 1015-1 ARE LISTED IN THE INDEX OF THIS REPORT.

TARGETS ARE ARRANGED IN THE OAK BY SUBJECT AND WITHIN EACH SUBJECT BY COMOR TARGET NUMBER. TARGETS OF OPPORTUNITY OBSERVED DURING THE OAK REPORTING PERIOD ARE LISTED NUMERICALLY UNDER THE APPROPRIATE SUBJECT AFTER THE LISTING OF COMOR TARGETS. LOCATIONS OF TARGETS IN THIS REPORT ARE INDICATED BY THE COUNTRY CODE PRECEDING THE COORDINATES.

SELECTED PHOTOGRAPHIC REFERENCES FOR EACH TARGET OBSERVED AND REPORTED FOLLOW THE DESCRIPTION OF THE TARGET. PASS NUMBERS ARE SUFFIXED WITH EITHER AN A FOR ASCENDING (SOUTH-TO-NORTH) OR D FOR DESCENDING (NORTH-TO-SOUTH). FRAMES ARE INDICATED BY THE LETTERS FR. THE LETTER F PRECEDING FRAME NUMBERS INDICATES THE FORWARD CAMERA, AND THE LETTER A INDICATES THE AFT CAMERA. ABSENCE OF THESE LETTERS INDICATES THAT THESE ARE FRAME AND INDEX NUMBERS. UNIVERSAL REFERENCE GRID (X-Y) COORDINATES ARE GIVEN IN PARENTHESIS AFTER THE FRAME TO WHICH THEY APPLY. THIS GRID IS IDENTIFIED AS UNIVERSAL GRID NO 1, FEB 64. SYMBOLS INDICATING CONDITIONS WHICH AFFECT THE APPEARANCE OF THE TARGET ON THE PHOTOGRAPHY ARE AS FOLLOWS -- C (CLEAR), H (HAZE), CS (CLOUD SHADOW), HC (HEAVY CLOUD COVER), SC (SCATTERED CLOUD COVER), SD (SEMI DARKNESS), O (OBLIQUITY), S (SNOW), PQ (POOR IMAGE QUALITY).

OAK RECIPIENTS ARE CAUTIONED THAT THE INITIAL SCAN OF THE PHOTOGRAPHY IS BEING ACCOMPLISHED IN A SHORT TIME AND PRIOR TO FINAL REFINEMENT OF EPHEMERAL DATA. CONSEQUENTLY, FUTURE DETAILED ANALYSIS MAY RESULT IN MINOR ALTERATIONS.

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Highlights

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HIGHLIGHTS

1. ICBM COMPLEXES

COVERAGE OF THE 24 KNOWN DEPLOYED ICBM COMPLEXES AND TYURATAM MISSILE TEST CENTER ON MISSION 1015-1 IS AS FOLLOWS --
ALEYSK, DROVYANAYA, GLADKAYA, ITATKA, KARTALY, OMSK, PERM, TEYKOVO, YOSHKAR-OLA, AND ZHANGIZ-TOBE ARE COVERED BY CLOUD-FREE PHOTOGRAPHY, HOWEVER, IN SOME CASES GROUND SNOW, HAZE, OR SHADOWS HINDER A DETAILED READOUT.

DOMBAROVSKIY, KOSTROMA, OLOVYANNAYA, AND SVOBODNYI ARE COVERED BUT DETAILS ARE OBSCURED BY SCATTERED CLOUDS, HAZE, AND GROUND SNOW. ALL OTHER DEPLOYED COMPLEXES AND TYURATAM MTC ARE EITHER CLOUD COVERED OR NOT COVERED.

25X1A 2. OLOVYANNAYA ICBM COMPLEX [REDACTED]
TWO NEWLY IDENTIFIED SINGLE SILOS HAVE BEEN ADDED TO LAUNCH GROUP D. THESE ARE DESIGNATED D11 AND D12, AND MAKE A TOTAL OF 12 SINGLE SILOS AT LAUNCH GROUP D.

25X1A 3. KARTALY ICBM COMPLEX [REDACTED]
THIS COMPLEX NOW CONTAINS 6 LAUNCH AREAS DESIGNATED A THROUGH F. LAUNCH AREAS D, E, AND F ARE NEWLY IDENTIFIED ON THIS MISSION.

25X1A 4. SHUANG-CHENG-TZU MISSILE TEST CENTER [REDACTED]
THE CENTER IS COVERED BY CLEAR PHOTOGRAPHY EXCEPT FOR THE AIRFIELD. THE ONLY ACTIVITY NOTED IS AT SITE A, SAM LAUNCH AREA.

5. AMM/SAM ACTIVITY

NO CHANGE IS OBSERVED THROUGH HAZE AND GROUND SNOW AT THE CHEREPOVETS SUSPECT AMM/SAM LAUNCH COMPLEX. AT ANGARSK, CONSTRUCTION CONTINUES ON THE DUAL HENHOUSE-TYPE STRUCTURES. THE ACTIVITIES AT TALLINN, OLENEGORSK, LENINGRAD AND ANTIPINSKOYE ARE NOT COVERED.

6. LAN-CHOU SAM SITE B19-2 (MISSILE BONUS)

25X1D THIS SITE, LOCATED 17 NM SSW OF LAN-CHOU AT 035-47N 103-44E WAS
NEWLY IDENTIFIED AND ACCEPTED AS A COMPLETED SITE ON [REDACTED]

25X1D [REDACTED] IT IS NOW ABANDONED AND IS DROPPED FROM THE NPIC LISTINGS OF ACTIVE MISSILE SITES. NO NEW MISSILE SITES WERE FOUND AS THE RESULT OF A 25-NM RADIUS AREA SEARCH AROUND LAN-CHOU, HOWEVER, A HOLIDAY IN PHOTOGRAPHIC COVERAGE PRECLUDES NEGATION OF THIS SEARCH AREA.

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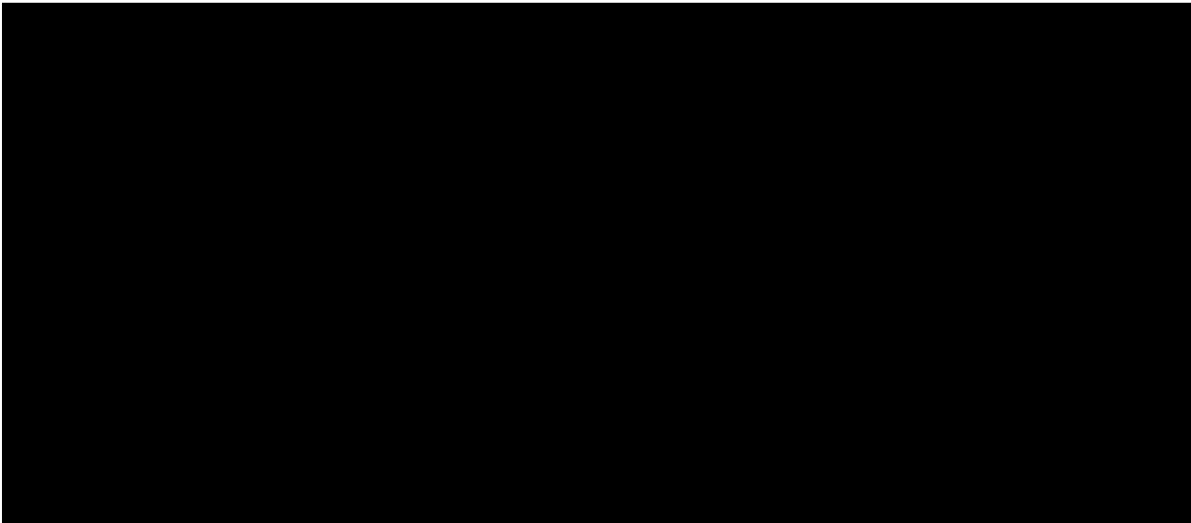
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7. ROCKET ENGINE TEST FACILITIES

THE TEST FACILITIES AT PERM, OMSK, AND KRASNOYARSK SHOW EVIDENCE OF CURRENT TEST ACTIVITY INDICATED BY BLAST MARKS AT TEST STANDS. THE ACTIVITY AT PERM IS THE FIRST EVIDENCE THAT THIS FACILITY IS OPERATIONAL.



25X2

STATUS OF COMOR TARGET READOUT

SEVENTY-FOUR TARGETS WERE OBSERVED IN THE OAK REPORTING PERIOD AND ARE LISTED IN THE INDEX AT THE CONCLUSION OF THIS REPORT.

TABULAR SUMMARY

A RECAPITULATION OF SIGNIFICANT ACTIVITY IS PRESENTED IN THE FOLLOWING TABLES ON SUCCEEDING PAGES ---

TABLE 1 -- SOVIET ICBM DEPLOYMENT
TABLE 2 -- SOVIET MRBM AND IRBM DEPLOYMENT
TABLE 3 -- SAM AND AMM DEPLOYMENT
TABLE 4 -- NUCLEAR ENERGY ACTIVITY
TABLE 5 -- AIRCRAFT ACTIVITY
TABLE 6 -- SUBMARINE ACTIVITY
TABLE 7 -- DATE AND TIME OF PHOTOGRAPHIC PASSES

25X1D

Table 1 - Soviet ICBN Deployment

Complex	Launch Area														Total Soft Sites	Total Hard Sites	Total Launch Positions
	A	B	C	D	E	F	G	H	I	J	K	L	M	N			
Aleynk	(M)	(M)	(M)	(M)	(M)	(M)										6	6
Dombayevskiy	(M)	(M)	(M)	(M)	(E)											5	5
Droynanaya	(C)	(C)	(C)	(C)	(C)	(C)									8	3	15
Gladkaya	(C)	(C)													2	1	7
Imeni Gassello	(M)	(M)	(M)	(M)	(M)	(M)										6	6
Izuka	(C)	(C)	(C)												3		6
Kartaly	(M)	(M)	(M)	(M)	(M)	(M)										6	6
Kozhova	(C)	(C)	(C)	(C)	(C)	(C)	(C)	(M)							6	2	18
Kozhok	(C)	(C)	(C)	(C)	(C)	(C)									3	2	12
Novosibirsk	(C)	(C)	(C)	(C)	(C)	(C)									3	2	12
Olovyannaya	(C)	(C)	(C)	(M)												10	21
Omsk	(C)	(C)	(C)	(C)	(C)	(C)										1	3
Perm *	(C)	(C)	(C)	(C)	(C)	(C)									5	1	13
Plesetsk *	(C)	(C)	(C)	(C)	(C)	(C)	(E)	(E)							*10***	1	18
Shadrinsk	(C)	(C)	(C)	(C)	(C)	(C)										3	9
Svobodnyy	(C)	(C)	(C)	(C)	(C)	(C)	(C)	(C)							7	1	17
Teykov	(C)	(C)	(C)	(C)	(C)	(C)									6		12
Tyumen	(C)		(C)												2		4
Uzhur	(M)	(M)	(M)	(M)	(M)	(M)										6	6
Verkhnyaya Salda	(C)	(C)	(C)	(C)	(C)	(C)	(C)	(C)	(C)						7	2	20
Vedrovo	(C)	(C)	(C)	(C)	(C)	(C)	(C)	(C)	(C)						6	2	18
Yoshkar-Ola	(C)	(C)	(C)	(C)	(C)	(C)									6		12
Yurya	(C)	(C)	(C)	(C)	(C)	(C)	(C)	(C)	(C)	(C)	(C)	(C)			8	3	25
Zhangit-Tobe	(M)	(M)	(M)	(M)	(M)											5	5
Construction Status (C=complete, L=late, M=mid, E=early)															Deployment Total		
Tyuratam MTC	(C)	(C)	(C)	(C)	(C)	(C)	(L)	(C)	(M)	(M)	(M)				10	9	35
Grand Total															87	82	312

*Includes Launch Points 1-4, complete

**Carried as Launch Group

***Total does not include two SSN pads at Launch Area F

†Includes 51 single silos (6-Aleynk, 5-Dombayevskiy, 6-Imeni Gassello, 8-Kartaly, 13-Olovyannaya, 8-Tyuratam MTC, 6-Uzhur, 5-Zhangit-Tobe)

□ Newly identified

○ Covered by current mission

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Table 2. Soviet MRBM and IRBM Deployment

Geographic Area	Soft MRBM Launch Areas	Soft IRBM Launch Areas	Hard MRBM Launch Areas	Hard IRBM Launch Areas	Total Launch Areas	Total Launch Positions
Western	121	11	18	11	161	633
Caucasus	3		2	3	8	29
Central Asia	2	3	1	4	10	36
Far Eastern	11	1		2	14	54
Totals	137	15	21	20	193	752

Totals do not include 71 fixed field-type sites with total of 259 launch positions and one launch facility at Sovetskaya Gavan.

Table 3. SAM and AMM Deployment

SAM and AMM Deployment															Country															
															USSR	Albania	Bulgaria	Czechoslovakia	[REDACTED]	Hungary	Poland	Rumania	Yugoslavia	China	North Korea	Indonesia	Egypt	Cuba	India	Totals
SA-0	} SAM sites	13																												
SA-1		56																												
SA-2		979*	1	19	22		16	30	16	3*	11	2	4	13*	24**	1														
SA-3		107						1																						
SAM support facilities		196	1	4	5		3	6	2	1		1		4†	6															
Probable AMM complexes		3																												
AMM/SAM complexes		2***																												

*Does not include 8 alternate sites. (4 in USSR; 4 in Egypt)

***Includes 1 suspect complex.

**Does not include 22 abandoned sites.

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Table 5. AIRCRAFT ACTIVITY

Airfield	Previous Significant Aircraft Count														Observed this Mission													
	RUSS	BE-14	BL-100	BL-100A	BL-100B	BL-100C	BL-100D	BL-100E	BL-100F	BL-100G	BL-100H	BL-100I	BL-100J	TOTALS	RUSS	BE-14	BL-100	BL-100A	BL-100B	BL-100C	BL-100D	BL-100E	BL-100F	BL-100G	BL-100H	BL-100I	BL-100J	TOTALS
Akhtabinsk/Vladimirovka	18 B, 11	22	5											32														
Alekseyevka		412	11											44														
Anisovo Gorodishche		361												14														
Arkhangelsk/Kholm														0														
Artem North		30												30														
Baranovichi		24	51											29														
Belaya		37												37														
Belaya Tserkov		62												69														
Bobruysk		16												16														
Borova NW		71												6														
Bykhov		11												37														
Bykhov		271												27														
Chaportovka		28												34														
Chernovo-Glinokoye		10												10														
Dolon	21 B, 11	361												36														
Engels	15	16												36														
Gomel Priyutsk		9	36											45														
Kalinin		32												32														
Kaliningrad Province		10	17											47														
Karavay		278												27														
Kazan A.C. P-122		3	11											26														
Kharkov East		41	41											0														
Mal Vayr		71												7														
Moscow		6												10														
Moscow-Moskva														0														
Moscow		26												34														
Moscow Ramenskoye	6 B, C	15	5											36														
Moscow														0														
Nordia		23												23														
Nikolayev Kaluzhina		51												51														
Obyedokoye														0														
Ostrogorsk		10												10														
Ozha Spetsnaz		13												23														
Orlov Gorodskaya		26												26														
Podolskoye, Volozhno														0														
Podolsk		61												61														
Podolsk		27												27														
Podolsk West		20												24														
Podolsk/Dyagilevo	14 B, 11	17												22														
Podolsk		22	5											27														
Podolsk		16												16														
Podolsk		2												2														
Podolsk	22 B, 11													22														
Podolsk		27												27														
Podolsk, Dniepr East		21												24														
Podolsk		31												10														
Podolsk		30												10														
Podolsk		24												26														
Podolsk	8 B, 11													42														
Podolsk, Yuzovskaya		24												24														
Podolsk, Yuzovskaya		2												2														
TOTALS	11 66	1024	113	1										1366														
	72 B, 11																											

25X1D

25X9

25X1D

Table 6: Submarine Activity.

Base	Previous Submarine Count												Observed this Mission																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100	SSBN, B-100

*E-1 Class 1-POSSIBLE 1-PROBABLE

Handle Via
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TC-80046/65

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

13

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25X1D

Approved For Release 2001/03/30 : CIA-RDP78T05439A000400320023-1

Approved For Release 2001/03/30 : CIA-RDP78T05439A000400320023-1

Missiles

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TCS-80046 '65

25X1A

MISSILES

[REDACTED] YOSHKAR-OLA ICBM COMPLEX UR 5634N 04803E

ENTIRE COMPLEX COVERED BY FAIR-TO-GOOD QUALITY STEREO PHOTOGRAPHY.

NO APPARENT CHANGES AT THE COMPLEX SUPPORT FACILITY, RAIL-TO-ROAD TRANSFER POINT, COMMUNICATION FACILITY, OR LAUNCH AREAS A (SITE 1), B (SITE 2), C (SITE 3), D (SITE 4), E (SITE 5), AND F (SITE 6) SINCE [REDACTED]

25X1D

NO ANTENNAS CAN BE IDENTIFIED AT THE NEW POSSIBLE HF COMMUNICATIONS SITE BETWEEN LAUNCH AREAS C AND D.

NO ABM ACTIVITY OBSERVED WITHIN A 50-NM RADIUS.

25X1D

25X1A

[REDACTED] SVOBODNY ICBM COMPLEX UR 5146N 12807E

COMPLEX COVERED BY GOOD QUALITY STEREO PHOTOGRAPHY.

25X9

25X9

25X1D

NO SIGNIFICANT CHANGE OBSERVED AT [REDACTED] COMMUNICATION SITE, OR LAUNCH AREAS A (SITE 3), B (SITE 1), D (SITE 4), F (SITE 5), AND H (SITE 8) SINCE [REDACTED] AT LAUNCH AREA C (SITE 2) ONLY THE LEFT PAD APPEARS TO HAVE AN OBJECT ERECTED ON IT.

COMPLEX SUPPORT FACILITY, RAIL-TO-ROAD TRANSFER POINT, AND LAUNCH AREA E (SITE 6) ARE CLOUD COVERED, AND LAUNCH AREA G (SITE 7) AND UNIDENTIFIED AREA BETWEEN LAUNCH AREAS G AND E ARE IDENTIFIED ONLY.

NO ABM ACTIVITY OBSERVED WITHIN A 50-NM RADIUS OF THE COMPLEX.

25X1D

TOP SECRET CHESS RUFF

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25X1A

[REDACTED] DROVYANAYA ICBM COMPLEX UR 5131N 11300E

ENTIRE COMPLEX COVERED BY FAIR-TO-POOR QUALITY
STEREO PHOTOGRAPHY.

NO SIGNIFICANT CHANGE OBSERVED AT COMPLEX SUPPORT
FACILITY, RAIL-TO-ROAD TRANSFER POINT, OR LAUNCH
AREAS A (SITE 1), B (SITE 2), C (SITE 4),
D (SITE 3), E (SITE 5), AND F (SITE 6) SINCE

25X1D

[REDACTED] UNIDENTIFIED AREA NORTHEAST
OF THE COMPLEX SUPPORT FACILITY, NEAR THE TOWN OF
DROVYANAYA, IS BARELY VISIBLE.

NO ABM ACTIVITY OBSERVED WITHIN 50-NM RADIUS
SEARCH AREA.

25X1D

25X1A

[REDACTED] KOSTROMA ICBM COMPLEX UR 5746N 04101E

COMPLEX SUPPORT FACILITY, RAIL-TO-ROAD
TRANSFER POINT, AND LAUNCH AREA F (SITE 6)
ARE IDENTIFIED ONLY. LAUNCH AREAS A
(SITE 1), B (SITE 2), C (SITE 3),
D (SITE 4), E (SITE 5), G (SITE 7), AND
H (SITE 8) ARE CLOUD COVERED.

NO ABM ACTIVITY OBSERVED IN CLOUD-FREE PORTIONS
OF EASTERN HALF OF A 50-NM RADIUS SEARCH
AREA. WESTERN HALF NOT COVERED BY PHOTOGRAPHY.
AREA IS 80 PERCENT CLOUD COVERED.

25X1D

25X1A

[REDACTED] ITATKA ICBM COMPLEX UR 5650N 08536E

COMPLEX COVERED BY FAIR-QUALITY STEREO
PHOTOGRAPHY WITH GROUND SNOW COVER.

NO SIGNIFICANT CHANGES OBSERVED AT THE COMPLEX
SUPPORT FACILITY, RAIL-TO-ROAD TRANSFER POINT,
LAUNCH AREA A (SITE 1), LAUNCH AREA B (SITE 2),
LAUNCH AREA C (SITE 3), OR THE UNIDENTIFIED ACTIVITY
EAST OF THE COMPLEX SUPPORT FACILITY SINCE

TOP SECRET CHESS RUFF

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TCS-80046 '65

25X1D [REDACTED] NO NEW CONSTRUCTION
ACTIVITY OBSERVED.

NO ABM ACTIVITY OBSERVED WITHIN A 50-NM RADIUS
SEARCH AREA.

25X1D [REDACTED]

25X1A [REDACTED]

OMSK ICBM COMPLEX UR 5503N 07330E

ENTIRE COMPLEX COVERED BY GOOD QUALITY STEREO
PHOTOGRAPHY.

25X1D NO APPARENT CHANGE OBSERVED AT COMPLEX SUPPORT
FACILITY, RAIL-TO-ROAD TRANSFER POINT, LAUNCH AREA A
(SITE 1), OR UNIDENTIFIED AREAS NORTH AND SOUTH OF
THE TRANSFER POINT SINCE [REDACTED]

NO ABM ACTIVITY OBSERVED IN EASTERN 50 PERCENT OF
50-NM RADIUS SEARCH AREA. WESTERN 50 PERCENT
NOT COVERED BY PHOTOGRAPHY.

25X1D [REDACTED]

25X1A [REDACTED]

PERM ICBM COMPLEX UR 5742N 05619E

COMPLEX IS COVERED BY GOOD QUALITY, STEREO
PHOTOGRAPHY.

25X1D NO APPARENT CHANGE IN THE COMPLEX SUPPORT FACILITY,
RAIL-TO-ROAD TRANSFER POINT, LAUNCH AREAS B (SITE 2),
C (SITE 3), D (SITE 6), E (SITE 5), AND THE
UNIDENTIFIED AREA OF CONSTRUCTION ACTIVITY
25X1D BETWEEN LAUNCH AREAS D AND F SINCE [REDACTED]

25X1D LAUNCH AREA A (SITE 1), A TYPE IIB LAUNCH SITE
COMPLETED SINCE [REDACTED] CONTAINS
A NEWLY IDENTIFIED, COMPLETED MISSILE-READY
BUILDING IN LINE AND DIRECTLY BEHIND THE RIGHT
PAD ABOUT 700 FT. A THIRD COMPLETED CENTER
BUILDING, ADJACENT TO THE LOOP ROAD, HAS ALSO
BEEN DETECTED. THERE IS EVIDENCE THAT CONSTRUCTION
STARTED ON THESE 2 BUILDINGS AS EARLY AS

TOP SECRET CHESS RUFF

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25X1D [REDACTED] HOWEVER, LACK OF GOOD
QUALITY, STEREO PHOTOGRAPHY PREVENTED THEIR
IDENTIFICATION.

25X9 LAUNCH AREA F (SITE 4) NOW APPEARS TO BE COMPLETE.
THE LEFT SILO IS OPEN.

25X9 [REDACTED]

NO ABM ACTIVITY OBSERVED WITHIN A 50-NM RADIUS OF
THE COMPLEX.

25X1D [REDACTED]

25X1A

[REDACTED] TEYKOVO ICBM COMPLEX UR 5652N 04035E

ENTIRE COMPLEX COVERED BY GOOD QUALITY STEREO
PHOTOGRAPHY.

NO SIGNIFICANT CHANGE OBSERVED IN COMPLEX SUPPORT
FACILITY, RAIL-TO-ROAD TRANSFER POINT, OR LAUNCH
AREAS A (SITE 1), B (SITE 2), C (SITE 3),
D (SITE 4), E (SITE 5), AND F (SITE 6) SINCE

25X1D [REDACTED]

NO ABM ACTIVITY OBSERVED WITHIN 50-NM RADIUS
SEARCH AREA.

25X1D [REDACTED]

25X1A

[REDACTED] GLADKAYA ICBM COMPLEX UR 5605N 09213E

ENTIRE COMPLEX COVERED BY GOOD QUALITY STEREO
PHOTOGRAPHY.

NO SIGNIFICANT CHANGE APPARENT AT COMPLEX
SUPPORT FACILITY, RAIL-TO-ROAD TRANSFER
POINT, OR LAUNCH AREAS A (SITE 3), B (SITE 2),
AND D (SITE 5).

NO ABM ACTIVITY OBSERVED WITHIN 50-NM
RADIUS SEARCH AREA.

25X1D [REDACTED]

TOP SECRET CHESS RUFF

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25X1A

[REDACTED] NOVOSIBIRSK ICBM COMPLEX UR 5515N 08259E

COMPLEX NOT COVERED BY PHOTOGRAPHY.

NO ABM ACTIVITY OBSERVED IN EASTERN 50 PERCENT
OF 50-NM RADIUS SEARCH AREA. WESTERN 50 PERCENT
NOT COVERED.

25X1D

25X1A

[REDACTED] OLOVYANNAYA ICBM COMPLEX UR 5049N 11550E

ENTIRE COMPLEX IS COVERED BY FAIR QUALITY
STEREO PHOTOGRAPHY WITH GROUND SNOW COVER.

THERE ARE NO SIGNIFICANT CHANGES AT THE COMPLEX
SUPPORT FACILITY, RAIL-TO-ROAD TRANSFER POINT,
OR LAUNCH AREAS A (SITE 1) AND C (SITE 3). LAUNCH
AREA B (SITE 2) NOW APPEARS TO BE COMPLETE WITH
A SEPARATE RIM FACILITY JUST OFF THE ACCESS
ROAD SOUTH OF THE LAUNCH SITE. TWO NEWLY IDENTIFIED
SINGLE SILOS HAVE BEEN ADDED TO LAUNCH GROUP D,
MAKING A TOTAL OF 12 SINGLE SILOS AT LAUNCH GROUP
D (D1-D12). GROUND SNOW COVER OBLITERATES
DETAILS OF THE SINGLE SILO SITES MAKING IT
IMPOSSIBLE TO DETERMINE THE CONSTRUCTION STATUS.
D1 (SITE 4) IS COVERED BY HAZE AND CLOUDS. NO
SIGNIFICANT CHANGES COULD BE DISCERNED AT LAUNCH
SITES D2-D6 (SITES 5, 7-10) OR THE PROBABLE SUPPORT/
CONTROL FACILITY. D7 (SITE 6) IS LOCATED ABOUT
3,200 FT NORTHWEST OF THE SUPPORT/CONTROL FACILITY
AND CONSISTS OF A SHALLOW EXCAVATION AND
SPOIL PILE. D8 (SITE 12) IS LOCATED 4.7 NM NNE OF
THE PROBABLE SUPPORT/CONTROL BUT IT WAS COVERED
BY HAZE AND CLOUDS. D9 (SITE 13) IS LOCATED 5.3
NM ENE OF THE PROBABLE SUPPORT/CONTROL.
D10 (SITE 11) IS ABOUT 6 NM EAST. D8, 9, AND 10 ARE
CONNECTED TO THE SUPPORT/CONTROL BY CABLE SCARS.
D11 IS ABOUT 4.7 NM SOUTHWEST OF THE
SUPPORT/CONTROL [REDACTED]

25X1B

[REDACTED] AND IT WAS NEGATED ON

25X1D

D12 IS LOCATED ABOUT 6.3 NM

TOP SECRET CHESS RUFF

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SSW OF THE SUPPORT/CONTROL. IT CONSISTS OF A
SHALLOW CIRCULAR EXCAVATION AND A SPOIL PILE.
THERE IS A BUILDING ABOUT 2,000 FT NORTH OF IT.
25X1D FIRST EVIDENCE OF THE SITE WAS [REDACTED]
25X1D [REDACTED] AND IT CAN BE NEGATED ON [REDACTED]

NO ABM ACTIVITY OBSERVED IN THE EASTERN 66
PERCENT OF 50-NM RADIUS SEARCH AREA. WESTERN 34
PERCENT WAS NOT COVERED ON PHOTOGRAPHY.

PHOTOGRAPHIC REFERENCES FOR SIGNIFICANT ITEMS
25X1D OF [REDACTED]

25X1D COMPLEX SUPPORT FACILITY -- [REDACTED]
LAUNCH SITE D7 [REDACTED]
LAUNCH SITE D8 [REDACTED]
LAUNCH SITE D9 [REDACTED]
25X1D LAUNCH SITE D10 [REDACTED]
LAUNCH SITE D11 [REDACTED]
LAUNCH SITE D12 [REDACTED]

(ATTACHMENTS 1 & 2)

25X1D [REDACTED]

25X1A [REDACTED]

[REDACTED] ZHANGIZ-TOBE ICBM COMPLEX UR 4912N 08110E

CONSTRUCTION ACTIVITY CONTINUES AT THE COMPLEX
SUPPORT FACILITY. ONE LARGE BUILDING HAS BEEN
ADDED AND FOUNDATIONS FOR APPROXIMATELY 10
OTHER BUILDINGS ARE DISCERNIBLE.

LAUNCH AREA A (SITE 1) REMAINS IN A MID-STAGE
OF CONSTRUCTION. AN IMAGE WITHIN THE EXCAVATION,
POSSIBLY THE SILO, APPEARS AT ABOUT GROUND LEVEL.

LAUNCH AREA B (SITE 2) REMAINS IN A MID-STAGE OF
CONSTRUCTION. AN UNIDENTIFIED WHITE IMAGE IS
WITHIN THE EXCAVATION. SNOW COVER OBSCURES DETAILS.

LAUNCH AREA C (SITE 3) REMAINS IN A MID-STAGE OF
CONSTRUCTION. ACTIVITY IS APPARENT AT THE LAUNCH
AREA. SHADOWS OBSCURE DETAILS WITHIN THE EXCAVATION.

LAUNCH AREA D (SITE 4) REMAINS IN A MID-STAGE OF

TOP SECRET CHESS RUFF

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CONSTRUCTION. ACTIVITY IS APPARENT. AN UNIDENTIFIED OBJECT, POSSIBLY A CRANE, EXTENDS FROM THE EDGE TO THE CENTER OF THE EXCAVATION. SHADOWS OBSCURE DETAILS WITHIN THE EXCAVATION.

LAUNCH AREA E (SITE 5) REMAINS IN A MID-STAGE OF CONSTRUCTION. SHADOWS OBSCURE DETAILS WITHIN THE EXCAVATION.

NO ABM ACTIVITY WAS OBSERVED WITHIN A 50-NM RADIUS OF THE SEARCH AREA. LACK OF PHOTOGRAPHIC COVERAGE PREVENTED SEARCHING ONE-THIRD OF THE EASTERN HALF.

25X1D [REDACTED]

25X1A [REDACTED]

DOMBAROVSKIY ICBM COMPLEX UR 5102N 05949E

NO SIGNIFICANT CHANGE APPARENT AT COMPLEX SUPPORT FACILITY OR POSSIBLE RAIL-TO-ROAD TRANSFER POINT. LAUNCH AREAS A (SITE 4), B (SITE 3), AND E (SITE 6) ARE IDENTIFIED ONLY. LAUNCH AREA C (SITE 2) REMAINS IN A MID-STAGE OF CONSTRUCTION. SNOW PRECLUDES FURTHER INTERPRETATION.

LAUNCH AREA D (SITE 1) IS CLOUD COVERED.

NO ABM ACTIVITY OBSERVED IN CLOUD-FREE PORTION OF EASTERN 90 PERCENT OF 50-NM RADIUS SEARCH AREA. WESTERN 10 PERCENT OF AREA NOT COVERED.

25X1D [REDACTED]

25X1A [REDACTED]

ALEYSK ICBM COMPLEX UR 5229N 08243E

COMPLEX COVERED BY GOOD QUALITY, SNOW-COVERED PHOTOGRAPHY.

NO SIGNIFICANT CHANGE IN THE COMPLEX SUPPORT FACILITY OR RAIL-TO-ROAD TRANSFER POINT SINCE

25X1D [REDACTED]

LAUNCH AREA A (SITE 1) REMAINS IN A MID-STAGE OF CONSTRUCTION. THE UNIDENTIFIED OBJECT EXTENDING

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

Handle Via
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FROM THE EDGE TO THE CENTER OF THE EXCAVATION
IS STILL PRESENT.

LAUNCH AREA B (SITE 2) REMAINS IN A MID-STAGE OF
CONSTRUCTION. ACTIVITY IS BARELY DISCERNIBLE
WITHIN THE EXCAVATION. AN OBJECT IS ON THE
SQUARE EARTH PLATFORM. SNOW COVER PRECLUDES
FURTHER INTERPRETATION.

AREA C (SITE 3) REMAINS IN A MID-STAGE OF
CONSTRUCTION. SHADOW PRECLUDES OBSERVATION OF THE
SILO WITHIN THE EXCAVATION. CONSTRUCTION ACTIVITY IS
VISIBLE WITHIN THE GROUND SCARRING ADJACENT TO THE
SOUTHEAST SIDE OF THE EXCAVATION.

LAUNCH AREA D (SITE 4) REMAINS IN A MID-STAGE
OF CONSTRUCTION. THE SILO IS VISIBLE WITHIN THE
EXCAVATION. BOTH THE SQUARE AND RECTANGULAR
EARTH PLATFORMS CONTAIN AN OBJECT.

LAUNCH AREA E (SITE 5) REMAINS IN A MID-STAGE OF
CONSTRUCTION. SNOW COVER PRECLUDES DETAILED
INTERPRETATION.

LAUNCH AREA F (SITE 6) REMAINS IN A MID-STAGE
OF CONSTRUCTION. SNOW COVER PRECLUDES DETAILED
INTERPRETATION.

NO ABM ACTIVITY OBSERVED WITHIN A
50-NM RADIUS OF THE COMPLEX.

25X1D

25X1A

KARTALY ICBM COMPLEX UR 5303N 06034E

THE COMPLEX NOW CONTAINS 6 LAUNCH AREAS DESIGNATED
A THROUGH F. LAUNCH AREAS D, E, AND F ARE NEWLY
IDENTIFIED ON THIS MISSION.

CONSTRUCTION HAS CONTINUED ON THE COMPLEX SUPPORT
FACILITY WHICH NOW CONTAINS A TOTAL OF
APPROXIMATELY 50 BUILDINGS. TRACK ACTIVITY IN THE
SNOW, GROUND SCARRING, AND CLUTTER IN THE AREA
INDICATE FURTHER CONSTRUCTION IN PROGRESS. THERE
HAS BEEN NO APPARENT CHANGE IN THE PROBABLE RAIL-TO-

TOP SECRET CHESS RUFF

MISSION 1015-1, 20-24 DECEMBER 1964

TCS-80046 '65

ROAD TRANSFER POINT.

LAUNCH AREA A (SITE 1), IN A MID-STAGE OF CONSTRUCTION, CONSISTS OF A SINGLE SILO IN A SQUARE EXCAVATION. THREE BUILDINGS AND 2 SMALLER STRUCTURES ARE NEARBY.

LAUNCH AREA B (SITE 2) IS IDENTIFIED ONLY. HAZE AND SNOW PRECLUDE INTERPRETATION OF DETAILS.

LAUNCH AREA C (SITE 3), IN A MID-STAGE OF CONSTRUCTION, CONSISTS OF A SINGLE SILO IN A SQUARE EXCAVATION WITH 4 SMALL BUILDINGS NEARBY.

25X1D LAUNCH AREA D, LOCATED 12.7 NM SSW OF THE COMPLEX SUPPORT FACILITY AT APPROXIMATELY 52-51N 60-27E, IS IN A MID-STAGE OF CONSTRUCTION AND CONSISTS OF A SINGLE SILO IN A SQUARE EXCAVATION WITH 2 LARGE AND SEVERAL SMALLER BUILDINGS NEARBY. THERE WAS NO EVIDENCE OF CONSTRUCTION IN [REDACTED] FIRST EVIDENCE WAS OBSERVED [REDACTED]

25X1D LAUNCH AREA E, LOCATED 11.8 NM WEST-SOUTHWEST OF THE COMPLEX SUPPORT FACILITY AT APPROXIMATELY 53-00N 60-16E, IS IN A MID-STAGE OF CONSTRUCTION AND CONSISTS OF A SINGLE SILO IN A SQUARE EXCAVATION WITH SEVERAL SMALL BUILDINGS NEARBY. THERE WAS NO EVIDENCE OF CONSTRUCTION IN [REDACTED] AND FIRST EVIDENCE WAS OBSERVED ON THIS MISSION. THE AREA WAS CLOUD COVERED IN [REDACTED]

25X1D LAUNCH AREA F, LOCATED 10 NM WNW OF THE COMPLEX SUPPORT FACILITY AT APPROXIMATELY 53-04N 60-19E, IS IN A MID-STAGE OF CONSTRUCTION AND CONSISTS OF A SINGLE SILO IN A SQUARE EXCAVATION. THERE WAS NO EVIDENCE OF CONSTRUCTION IN [REDACTED]

25X1D NO ABM ACTIVITY IDENTIFIED WITHIN A 50-NM RADIUS OF THE COMPLEX IN CLOUD-FREE PORTIONS OF THE SEARCH AREA.

25X1D PHOTOGRAPHIC REFERENCES FOR SIGNIFICANT ITEMS ON [REDACTED]

TOP SECRET CHESS RUFF

Handle Via
Talent-Keyhole
Control System Only

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25X1D COMPLEX SUPPORT FACILITY --
R/R TRANSFER POINT

25X1D LAUNCH AREA A

25X1D LAUNCH AREA B

25X1D LAUNCH AREA C

25X1D LAUNCH AREA D

LAUNCH AREA E

LAUNCH AREA F

(ATTACHMENTS 3, 4 & 5)

25X1D

25X1A

KARA-BABAU IRBM LAUNCH SITE 2 UR 4431N 07758E

IDENTIFICATION ONLY.

25X1D

25X1A

NOVOSYSOYEVKA IRBM LAUNCH SITE 2 UR 4407N 13327E

25X1D NO APPARENT CHANGE SINCE

NO EVIDENCE OF A COMMUNICATIONS OR ELECTRONICS
FACILITY NEAR SITE.

25X1D

25X1A

GELLI IRBM LAUNCH SITE UR 4245N 04728E

25X1D NO APPARENT CHANGE SINCE
LAUNCH SITE

IN

25X9

25X9

NO ELECTRONICS FACILITY OBSERVED IN IMMEDIATE AREA.

25X1D

25X1A

PARAUL IRBM LAUNCH SITE UR 4247N 04723E

LAUNCH AREA IS COMPLETE. THE POSSIBLE CAMOUFLAGE SEEN

TOP SECRET CHESS RUFF

Handle Via
TALENT-KEYHOLE
Control System Only

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25X1D ON [REDACTED] ON THE SILO COVERS IS NOT
OBSERVED ON THIS KH-4 MISSION.

25X9 [REDACTED]

25X1D [REDACTED]

25X1A

[REDACTED] ZHURAVKA IRBM LAUNCH SITE UR 5436N 07640E

NO ADDITIONAL IRBM/MRBM LAUNCH AREAS OBSERVED
WITHIN A 25-NM RADIUS.

25X1D NO APPARENT CHANGE IN LAUNCH SITE SINCE
[REDACTED] WHEN ONE OF THE 2 PROBABLE
PERSONNEL BUILDINGS AT REAR OF READY BUILDINGS
AND THE PROBABLE RIM BUILDING WERE REMOVED.

NO ACTIVITY IS DISCERNIBLE AT THE LAUNCH SITE
NOR HAS THE ROAD NETWORK BEEN CLEARED OF SNOW.

25X1D [REDACTED]

25X1A

[REDACTED] NOVOSYSOYEVKA IRBM LAUNCH SITE 3 UR 4407N 13325E

25X1D NO APPARENT CHANGE SINCE [REDACTED]

25X9 [REDACTED]

25X1D [REDACTED]

25X1A

[REDACTED] KARA-BABAU IRBM LAUNCH SITE 3 UR 4431N 07743E

IDENTIFICATION ONLY.

25X1D [REDACTED]

25X1A

[REDACTED] TYURATAM MTR-KAMCHATKA IMPACT INST SITE A UR 5756N 16201E

NO SIGNIFICANT CHANGE IN INSTRUMENTATION SITE A

TOP SECRET CHESS RUFF

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25X1D
25X1D

OR KLYUCHI COMMUNICATIONS CENTER SINCE [REDACTED]

IN THE IMPACT AREA A FEW OF THE LARGER, KNOWN
IMPACTS WERE OBSERVED, BUT SNOW COVER PRECLUDES AN
ACCURATE READOUT.

QUALITY OF PHOTOGRAPHY PRECLUDES COMPARISON OF
FACILITIES WITH SARY-SHAGAN.

25X1D

PHOTOGRAPHIC REFERENCES FOR ITEMS OF SIGNIFICANT
INTEREST ON [REDACTED] ARE AS FOLLOWS ----

25X1D

SITE B

SITE C

SITE D

25X1D

SITE E

25X1D

SITE F

25X1D

SITE G

IMPACT AREA

KLYUCHI COMMUNICATIONS CENTER

25X1D

25X1A

SARY-SHAGAN ANTIMISSILE TEST CENTER UR 4602N 07334E

SITE 13 IS THE ONLY FACILITY COVERED AT THE TEST
CENTER. INTERPRETATION IS LIMITED BY HEAVY HAZE,
SNOW, AND OBLIQUITY. THE SITE IS ACTIVE, WITH MANY
OF THE ROADS CLEARED OF SNOW. ACTIVITY, INCLUDING
SNOW CLEARANCE, IS NOTED AT THE NORTHERN LINEAR
BUILDING OF THE SOUTHERN DUAL HENHOUSE-TYPE STRUCTURE,
AT THE NORTHERN LINEAR BUILDING OF THE NORTH CENTRAL
DUAL HENHOUSE-TYPE STRUCTURE, AND AT THE SOUTHERN
LINEAR EXCAVATION OF THE NORTHERN DUAL HENHOUSE-TYPE
STRUCTURE. A NARROW, SNOW-COVERED SCAR INDICATES
SOME WORK SINCE [REDACTED] ON THE NORTHERN
LINEAR SITE OF THE NORTHERN STRUCTURE. A SHORT SCAR,
FIRST OBSERVED ON [REDACTED] AND EXTENDING WEST
AND NORTHWEST FROM THE SOUTH CENTRAL DUAL HENHOUSE-
TYPE STRUCTURE, HAS BEEN CLEARED OF SNOW. THE NEW
LINEAR SCAR, FIRST OBSERVED ON [REDACTED]
AND SITUATED APPROXIMATELY 4,120 FT SOUTHWEST OF
THE TRANSFORMER-SUBSTATION UNDER CONSTRUCTION.

25X1D

25X1D

25X1D

TOP SECRET CHESS RUFF

Handle Via
TALENT-KEYHOLE
Control System Only

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IS BEING WIDENED. NO APPRECIABLE CHANGE IS OBSERVED
IN THE LENGTH OF THE SNOW-COVERED SCAR WHICH
REMAINS AT APPROXIMATELY 4,375 FT. THE SCAR IS
ORIENTED ON AN AZIMUTH OF [REDACTED] (ACCURATE WITHIN
[REDACTED] THE BUILDING TRIAD IS IDENTIFIED ONLY.

25X1D

25X1D

25X1D

25X1A

MAKAT FIELD LAUNCH POINT (MRBM) UR 4758N 05342E

IDENTIFICATION ONLY. THE SUPPORT AREA IS
FAINTLY VISIBLE.

25X1D

25X1A

SHUANG-CHENG-TZU MISSILE TEST CENTER CH 4107N 10020E

THE SHUANG-CHENG-TZU MISSILE TEST CENTER,
EXCLUDING SHUANG-CHENG-TZU AIRFIELD, IS COVERED ON
CLEAR PHOTOGRAPHY.

NO APPARENT CHANGE IS OBSERVED IN THE SSM LAUNCH
FACILITIES, SAM LAUNCH FACILITIES, OPERATIONAL
SUPPORT FACILITIES, OR MAIN SUPPORT BASE SINCE

25X1D

SAM LAUNCH SITE-A, AT LEAST 8 VEHICLES/PIECES OF
EQUIPMENT, INCLUDING A PROBABLE GUIDANCE RADAR,
REMAIN IN THE SAME POSITIONS AS ON [REDACTED]

25X1D

25X1D

THE TERMINUS OF THE RAIL LINE INTO THE DESERT,
WHICH WAS CLOUD COVERED [REDACTED]
NO APPARENT CHANGE SINCE [REDACTED]

25X1D

25X1D

25X1A

ZAGORSK ROCKET ENGINE TEST FACILITY UR 5625N 03810E

CONSTRUCTION ACTIVITY CONTINUES IN AREA EAST
OF SECURED PORTION OF FACILITY. NO TESTING
ACTIVITY, UNUSUALLY LONG RAIL CARS, OR EQUIPMENT

TOP SECRET CHESS RUFF

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25X1A

[REDACTED] PERM ROCKET ENGINE TEST FACILITY UR 5801N 05634E

DARK TONE AT BASE OF TEST STAND SUGGESTS THAT
A BLAST MARK HAS BEEN PARTIALLY COVERED BY RECENT
SNOW. THIS IS THE FIRST EVIDENCE OF OPERATIONAL
ACTIVITY AT THIS SITE. TRACKS IN SNOW
INDICATE THAT WORK IS PROGRESSING IN THE EXPANSION
AREA PREVIOUSLY REPORTED ON THE WEST SIDE OF THE
TEST AREA. AT PRESENT ONLY THE SECURITY LINES
HAVE BEEN COMPLETED AROUND THE EXPANSION AREA.

25X1D

25X1A

[REDACTED] BIYSK STATIC TEST FACILITY UR 5229N 08507E

NO CHANGES OR NEW CONSTRUCTION OBSERVED SINCE

25X1D

[REDACTED]
POOR QUALITY PHOTOGRAPHY PRECLUDES DETAILED
INTERPRETATION.

25X1D

25X1A

[REDACTED] MALANG AREA, SUSPECT SAM SITES ID 0754S 11248E

NO SAM SITES OBSERVED.

25X1D

25X1A

[REDACTED] KRASNAYA GORBATKA SUSPECT SSM AREA UR 5553N 04146E.

ONLY 75 PERCENT OF SEARCH AREA COVERED BY
PHOTOGRAPHY. NO SSM ACTIVITY OBSERVED IN CLOUD-FREE
PORTIONS.

25X1D

25X1A

[REDACTED] URALSK SUSPECT SSM AREA UR 5114N 05122E

NO SSM ACTIVITY OBSERVED WITHIN A 50-NM RADIUS OF

TOP SECRET CHESS RUFF

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URALSK. SNOW COVER PRECLUDES NEGATION OF AREA.

25X1D [REDACTED]

25X1A

[REDACTED] SRETENSK, SUSPECT SSM AREA UR 5213N 11743E

SEARCH WITHIN 50 NM RADIUS OF SRETENSK REVEALED NO
SSM ACTIVITY, SEARCH AREA CANNOT BE NEGATED
HOWEVER, BECAUSE OF HEAVY SNOW.

25X1D [REDACTED]

25X1A

[REDACTED] KOMSOMOLSK SHIPYARD AMUR 199 UR 5033N 13702E

25X1D NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED]

25X1D

ONE PROBABLE UNIDENTIFIED VESSEL AT PIER. NO
SUBMARINES OR TRANSPORTER DOCKS OBSERVED.
AMUR RIVER IS ICE COVERED.

25X1D [REDACTED]

25X1A

[REDACTED] MOSCOW SUSPECT ABM AREA UR 5545N 03737E

APPROXIMATELY 60 PERCENT OF THE 75-NM RADIUS
SEARCH AREA COVERED BY PHOTOGRAPHY. NO NEW
SARY-SHAGAN OR LENINGRAD TYPE ELECTRONIC

25X9

FACILITIES [REDACTED]

25X1D

OBSERVED IN CLOUD-FREE AREAS. NO NEW CONSTRUCTION

ACTIVITY OBSERVED SINCE [REDACTED]

AT SA-1 SAM SITES C02-1, C09-1, C16-1, EA10-1,
E12-1, E15-1, OR E16-1. ACTIVITY CONTINUES

AT SITES C14-1, E05-1, E13-1, E33-1, AND
E35-1. AT SITE E05-1, PROBABLE PREPARATION FOR
FOOTINGS IS OBSERVED AT THE LARGE CLEARING
OF THE SECOND BUILDING TRIAD. ADDITIONAL ROADS
INTERCONNECTING THE 3 CLEARINGS HAVE BEEN

25X1D

CONSTRUCTED SINCE [REDACTED]

NO

APPARENT CHANGE OBSERVED AT THE ORIGINAL TRIAD.
AT SITE E33-1, WORK CONTINUES ON THE 2 SMALLER
CLEARINGS OF THE SECOND TRIAD. THE ORIGINAL
TRIAD IS CLOUD COVERED. AT SITE C14-1,

TOP SECRET CHESS RUFF

Handle Via
TALENT-KEYHOLE
Control System Only

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UNIDENTIFIED ACTIVITY CONTINUES ALONG THE ROAD
ON THE WEST SIDE OF THE LAUNCH SITE. THE
REMAINDER OF THE SA-1 SAM SITES ARE CLOUD COVERED,
NOT COVERED, OR SHOW NO APPARENT CHANGE SINCE

25X1D

25X1D

25X1A

ANGARSK HENHOUSE-TYPE ACTIVITY UR 5253N 10315E

CONSTRUCTION CONTINUES ON THE DUAL HENHOUSE-TYPE
STRUCTURES. THE PROBABLE CENTRAL CONTROL BUILDING
AND THE 2 LINEAR STRUCTURES AT AREA A
APPEAR TO BE EXTERNALLY COMPLETE.

THE PROBABLE CENTRAL CONTROL BUILDING AT AREA B
APPEARS TO BE EXTERNALLY COMPLETE. THE
2 LINEAR STRUCTURES IN THIS AREA CONSIST OF FOOTINGS
WITH BACKFILL IN PLACE AND BEGINNING
CONSTRUCTION OVER THE FOOTINGS. THE TERMINAL BUILDING
IS IN PLACE AT THE SOUTH LINEAR STRUCTURE.

THE 3 WINGS OF THE PROBABLE CENTRAL CONTROL
BUILDING AT AREA C APPEAR TO BE EXTERNALLY COMPLETE,
WITH NO APPARENT PROGRESS ON THE LARGE CENTRAL
PORTION OF THE BUILDING. EXCAVATIONS AND FOOTINGS
AT THE 2 LINEAR STRUCTURES APPEAR COMPLETE.

AT AREA D EXCAVATION AND POSSIBLE FOOTINGS FOR THE
PROBABLE CENTRAL CONTROL BUILDING ARE EVIDENT.
LINEAR EXCAVATIONS FOR THE DUAL HENHOUSE-TYPE
STRUCTURE APPEAR TO BE NEARING COMPLETION. THE
OVERALL LENGTH OF THE EXCAVATIONS IS 2,090 FT.

AN UNIDENTIFIED AREA, OUTSIDE THE SOUTH CORNER OF
THE SECURED OPERATIONS AREA, HAS BEEN ENLARGED
SINCE

25X1D

NO SIGNIFICANT CHANGE OBSERVED IN THE SUPPORT
FACILITIES.

(ATTACHMENT 8)

25X1D

TOP SECRET CHESS RUFF

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TCS-80046 65

25X1A

[REDACTED] CHEREPOVETS SUSP AMM/SAM LNCH COMPLEX U/C UR 5906N 03810E.

25X1D

NO CHANGE IS OBSERVED THROUGH HAZE AND GROUND SNOW SINCE [REDACTED] AT THE SUSPECT LAUNCH SITES OR AT SUPPORT AREA 0.5 NM NORTHWEST. NO SIGNIFICANT CHANGE IS APPARENT THROUGH SNOW AT THE BUILDING AND ROAD CONSTRUCTION PREVIOUSLY REPORTED NORTHWEST OF THE SUPPORT AREA. WHETHER THERE IS AN ASSOCIATION BETWEEN THIS LATTER AREA AND THE SUSPECT LAUNCH SITES CANNOT BE DETERMINED.

NO MISSILES, MISSILE-RELATED EQUIPMENT, OR ELECTRONIC AND COMMUNICATIONS FACILITIES OBSERVED.

25X1D

25X1A

[REDACTED] RUMBAI AREA SAM SEARCH ID 0040N 10013E

NO SAM SITE OBSERVED AT COORDINATES.

SEARCH AREA APPROXIMATELY 75 PERCENT CLOUD COVERED.

25X1D

25X1A

25X6

25X1D

BONUS

LAN-CHOU SAM SITE B19-2 CH 3547N 10344E

25X1D

THIS COMPLETED SA-2 SAM SITE, LOCATED 17 NM SSW OF LAN-CHOU AT 3547N 10344E IS NOW ABANDONED. THE SITE WAS NOT PRESENT ON [REDACTED] BUT WAS NEWLY IDENTIFIED AND ACCEPTED BASED ON THE PHOTOGRAPHY FROM

25X1D

[REDACTED]
SINCE THE FOUR OCCUPIED REVETTED LAUNCH POSITIONS, THE POSSIBLE REVETTED CENTRAL GUIDANCE AREA AND THE TENTS WHICH WERE ADJACENT TO THE SAM SITE HAVE BEEN REMOVED, THIS SITE IS DROPPED FROM NPIC LISTING OF

TOP SECRET CHESS RUFF

Transmit via
TALENT-EYHOLE
Control System Only

MISSION 1015-1, 20-24 DECEMBER 1964

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ACTIVE MISSILE SITES.

NO NEW MISSILE SITES WERE FOUND AS THE RESULT OF
A 25-NM RADIUS SEARCH AROUND LAN-CHOU.

25X9

25X9

(ATTACHMENT 9)

25X1D

**Air
Facilities**

TOP SECRET CHESS RUFF

Handle Via
TALENT KEYHOLE
Control System Only

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AIR FACILITIES

25X1A

[REDACTED] UKRAINA AIRFIELD UR 5110N 12826E

25X1D NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED]

25X1D

AIRCRAFT -- NONE OBSERVED.

25X1D

25X1A

[REDACTED] BORZYA AIRFIELD NORTHWEST UR 5024N 11623E

AIRCRAFT -- 9 BADGER.

25X1D

25X1A

[REDACTED] BELAYA AIRFIELD UR 5254N 10335E

AIRCRAFT -- 43 PROBABLE AIRCRAFT ON PARKING APRON.

25X1D

25X1A

[REDACTED] RYAZAN/DYAGILEVO AIRFIELD UR 5439N 03935E

NO AIRCRAFT OBSERVED IN CLOUD-FREE AREAS.

25X1D

25X1A

[REDACTED] KAZAN AIRFRAME PLANT GORBUNOV 22 UR 5552N 04907E

NO APPARENT CHANGE IN FACILITIES SINCE

25X1D

AIRCRAFT -- 16 PROBABLE AIRCRAFT.

25X1D

25X1A

[REDACTED] RAMENSKOYE AIRCRAFT EXPERIMENTAL PLANT UR 5535N 03807E

1.4 NM NW OF NW END OF MAIN RUNWAY OF MOSCOW/

Handle Via
TALENT-KEYHOLE
Control System Only

TOP SECRET CHESS RUFF

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TCS-80046-65

RAMENSKOYE AIRFIELD.

PLANT CONSISTS OF SEVERAL PROBABLE LABORATORY BUILDINGS, A LARGE T-SHAPED PROBABLE EXPERIMENTAL AIRCRAFT ASSEMBLY BUILDING, SEVERAL SHOP AND STORAGE BUILDINGS [REDACTED]

25X1D

AIRCRAFT -- 1 POSSIBLE BOUNDER, 1 POSSIBLE CLASSIC, 25 MEDIUM SWEEP-WING, 18 PROBABLE LIGHT STRAIGHT-WING, 5 POSSIBLE HEAVY HELICOPTERS, AND AN UNDETERMINED NUMBER OF UNIDENTIFIED LIGHT AIRCRAFT.

25X1D

25X1A

[REDACTED] IRKUTSK AIRFRAME PLANT UR 5221N 10412E

A SMALL PORTION OF THE EASTERN EDGE OF THE NEW ASSEMBLY BUILDING ADDITION IS NOW ROOFED. NO AIRCRAFT OBSERVED.

HAZE, SNOW, AND POOR QUALITY PHOTOGRAPHY PRECLUDE FURTHER INTERPRETATION.

25X1D

25X1A

[REDACTED] IRKUTSK AIRFIELD NORTHWEST UR 5222N 10411E

AIRCRAFT -- NONE OBSERVED.

25X1D

25X1A

[REDACTED] KUYBYSHEV AIRFRAME PLANT LENIN 18 UR 5313N 05019E

IDENTIFICATION ONLY.

25X1D

25X1A

25X6

Nuclear Energy

Next 6 Page(s) In Document Exempt

**Naval
Activity/
Ports**

TOP SECRET CHESS RUFF

Handle Via
TALENT-KEYHOLE
Control System Only

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TCS-80046 65

25X1A

NAVAL ACTIVITY/PORTS

[REDACTED] SHANG-HAI NAVAL BASE & SHIPYARD KIANGNAN CH 3112N 12128E

25X1D NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED]

25X1D [REDACTED]

VESSELS -- 3 PROBABLE SS AND 4 UNIDENTIFIED SMALL
VESSELS AT WHARF. HAZE PRECLUDES IDENTIFICATION
OF VESSELS UNDER CONSTRUCTION.

25X1D [REDACTED]

25X1A

[REDACTED] TA-KU NAVAL FACILITY CH 3900N 11740E

25X1D NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED]

25X1D [REDACTED]

VESSELS -- 8 MERCHANT VESSELS, ONE POSSIBLE
DESTROYER-TYPE, AND ONE UNIDENTIFIED VESSEL IN
A GRAVING DOCK.

AREA COVERED BY FAIR QUALITY STEREO PHOTOGRAPHY.

25X1D [REDACTED]

25X1A

[REDACTED] SHAN-TOU NAVAL BASE CH 2321N 11640E

25X1D NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED]

NO VESSELS OBSERVED AT NAVAL BASE.

ENTIRE AREA COVERED ON CLEAR, GOOD QUALITY
PHOTOGRAPHY.

25X1D [REDACTED]

25X1A

[REDACTED] HUANG-PU NAVAL BASE CH 2305N 11325E

NAVAL BASE AND 5-NM-RADIUS SEARCH AREA OBSERVED
THROUGH SLIGHT HAZE.

TOP SECRET CHESS RUFF

Handle Via
Talent-Keyhole
Control System Only

MISSION 1015-1, 20-24 DECEMBER 1964

TCS-80046 '65

25X1D NO APPARENT CHANGE IN FACILITIES SINCE
[REDACTED]

NO EVIDENCE OF SUBMARINE CONSTRUCTION OBSERVED.
HAZE AND SCALE PRECLUDE DETAILED INTERPRETATION OF
OBJECTS ON SHIPYARD BUILDING WAYS. GRAVING DOCK
ON HUANG-PU ISLAND IS OCCUPIED BY SMALL CRAFT.
LARGE NEW PROBABLE GRAVING DOCK IMMEDIATELY
WEST OF HUANG-PU PORT FACILITIES (ACROSS RIVER FROM
HUANG-PU ISLAND) IS STILL UNDER CONSTRUCTION.

25X9

[REDACTED]
VESSELS --- SEVERAL UNIDENTIFIED SMALL CRAFT AND 2
UNIDENTIFIED LARGE VESSELS AT WHARVES OR AT ANCHOR.

25X1D

25X1A

[REDACTED] CHOU-SHAN NAVAL BASE AND SHIPYARD CH 3000N 12206E

25X1D NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED]

25X1D

[REDACTED]
VESSELS -- 3 PC.

25X1D

**Military
Activity**

TOP SECRET CHESS RUFF

Handle Via
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Control System Only

MISSION 1015-1, 20-24 DECEMBER 1964

TCS-80046 '65

25X1A

MILITARY ACTIVITY

[REDACTED] LAO--PO SHAN SPECIAL AREA 'CH 4556N 12045E

AREA ONLY PARTIALLY COVERED BY PHOTOGRAPHY.

NO MILITARY ACTIVITY OBSERVED.

25X1D

25X1A

25X6

25X1D

**Other
Activity**

TOP SECRET CHESS RUFF

Handle Via
TALENT-KEYHOLE
Control System Only

MISSION 1015-1, 20-24 DECEMBER 1964

TCS-80046 '65

25X1A

OTHER ACTIVITY

[REDACTED] CHEBSARA SENSITIVE OPERATIONS COMPLEX UR 5906N 03837E

25X1D

NO APPARENT CHANGE SINCE [REDACTED]

HEAVY SNOW AND HAZE PRECLUDE DETERMINATION OF
STATUS OF CONSTRUCTION ON BUNKERS 4 AND 5.

25X1D [REDACTED]

Index

TOP SECRET CHESS RUFF

Handle Via
TALENT-KEYHOLE
Control System Only

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INDEX OF COMOR TARGETS

THIS SECTION CONTAINS A COMPOSITE LIST, BY TARGET
NUMBER, OF ALL COMOR TARGETS REPORTED DURING THE SCAN
OF MISSION 1015-1.

COMOR	INSTALLATION NAME	CTY COORDINATES
[REDACTED]	YOSHKAR-OLA ICBM COMPLEX	UR 5634N 04803E
	SVOBODNYY ICBM COMPLEX	UR 5146N 12807E
	DROVYANAYA ICBM COMPLEX	UR 5131N 11300E
	KOSTROMA ICBM COMPLEX	UR 5746N 04101E
	ITATKA ICBM COMPLEX	UR 5650N 08536E
	OMSK ICBM COMPLEX	UR 5503N 07330E
	PERM ICBM COMPLEX	UR 5742N 05619E
	TEYKOVO ICBM COMPLEX	UR 5652N 04035E
	GLADKAYA ICBM COMPLEX	UR 5605N 09213E
	NOVOSIBIRSK ICBM COMPLEX	UR 5515N 08259E
	OLOVYANNAYA ICBM COMPLEX	UR 5049N 11550E
	ZHANGIZ-TOBE ICBM COMPLEX	UR 4912N 08110E
	DOMBAROVSKIY ICBM COMPLEX	UR 5102N 05949E
	ALEYSK ICBM COMPLEX	UR 5229N 08243E
	KARTALY ICBM COMPLEX	UR 5303N 06034E
	KARA-BABAU IRBM LAUNCH SITE 2	UR 4431N 07758E
	NOVOSYSOYEVKA IRBM LAUNCH SITE 2	UR 4407N 13327E
	GELLI IRBM LAUNCH SITE	UR 4245N 04728E
	PARAUL IRBM LAUNCH SITE	UR 4247N 04723E
	ZHURAVKA IRBM LAUNCH SITE	UR 5436N 07640E
	NOVOSYSOYEVKA IRBM LAUNCH SITE 3	UR 4407N 13325E
	KARA-BABAU IRBM LAUNCH SITE 3	UR 4431N 07743E
	TYURATAM MTR-KAMCHATKA IMPACT INST SITE	AUR 5756N 16201E
	SARY-SHAGAN ANTIMISSILE TEST CENTER	UR 4602N 07334E
	MAKAT FIELD LAUNCH POINT (MRBM)	UR 4758N 05342E
	SHUANG-CHENG-TZU MISSILE TEST CENTER	CH 4107N 10020E
	ZAGORSK ROCKET ENGINE TEST FACILITY	UR 5625N 03810E
	KRASNOYARSK ROCKET ENGINE TEST FACILITY	UR 5605N 09327E
	OMSK RKT ENG TEST FAC GORNAYA BITIYA	UR 5525N 07317E
	PEIPING RKT ENG TEST FAC CHANG-HSIN-TIEN	CH 3950N 11608E
	PERM ROCKET ENGINE TEST FACILITY	UR 5801N 05634E
	BIYSK STATIC TEST FACILITY	UR 5229N 08507E
	MALANG AREA SUSPECT SAM SITES	ID 0754S 11248E
KRASNAYA GORBATKA SUSPECT SSM AREA	UR 5553N 04146E	
URALSK SUSPECT SSM AREA	UR 5114N 05122E	
SRETENSK SUSPECT SSM AREA	UR 5213N 11743E	
KOMSOMOLSK SHIPYARD AMUR 199	UR 5033N 13702E	

25X1A

Handle Via
TALENT-KEYHOLE
Control System Only

TOP SECRET CHESS RUFF

MISSION 1015-1, 20-24 DECEMBER 1964

TCS-80046 '65

25X6

MOSCOW SUSPECT ABM AREA	UR 5545N 03737E
ANGARSK HENHOUSE-TYPE ACTIVITY	UR 5253N 10315E
CHEREPOVETS SUSP AMM/SAM LNCH COMPLEX U/CUR	5906N 03810E
RUMBAI AREA SAM SEARCH	ID 0040N 10013E

UKRAINA AIRFIELD	UR 5110N 12826E
BORZYA AIRFIELD NORTHWEST	UR 5024N 11623E
BELAYA AIRFIELD	UR 5254N 10335E
RYAZAN/DYAGILEVO AIRFIELD	UR 5439N 03935E
KAZAN AIRFRAME PLANT GORBUNOV 22	UR 5552N 04907E
RAMENSKOYE AIRCRAFT EXPERIMENTAL PLANT	UR 5535N 03807E
IRKUTSK AIRFRAME PLANT	UR 5221N 10412E
IRKUTSK AIRFIELD NORTHWEST	UR 5222N 10411E
KUYBYSHEV AIRFRAME PLANT LENIN 18	UR 5313N 05019E

25X6

25X2

25X6

SHANG-HAI NAVAL BASE & SHIPYARD KIANGNAN	CH 3112N 12128E
TA-KU NAVAL FACILITY	CH 3900N 11740E
SHAN-TDU NAVAL BASE	CH 2321N 11640E
HUANG-PU NAVAL BASE	CH 2305N 11325E
CHOU-SHAN NAVAL BASE AND SHIPYARD	CH 3000N 12206E
LAO-PO SHAN SPECIAL AREA	CH 4556N 12045E

CHEBSARA SENSITIVE OPERATIONS COMPLEX	UR 5906N 03837E
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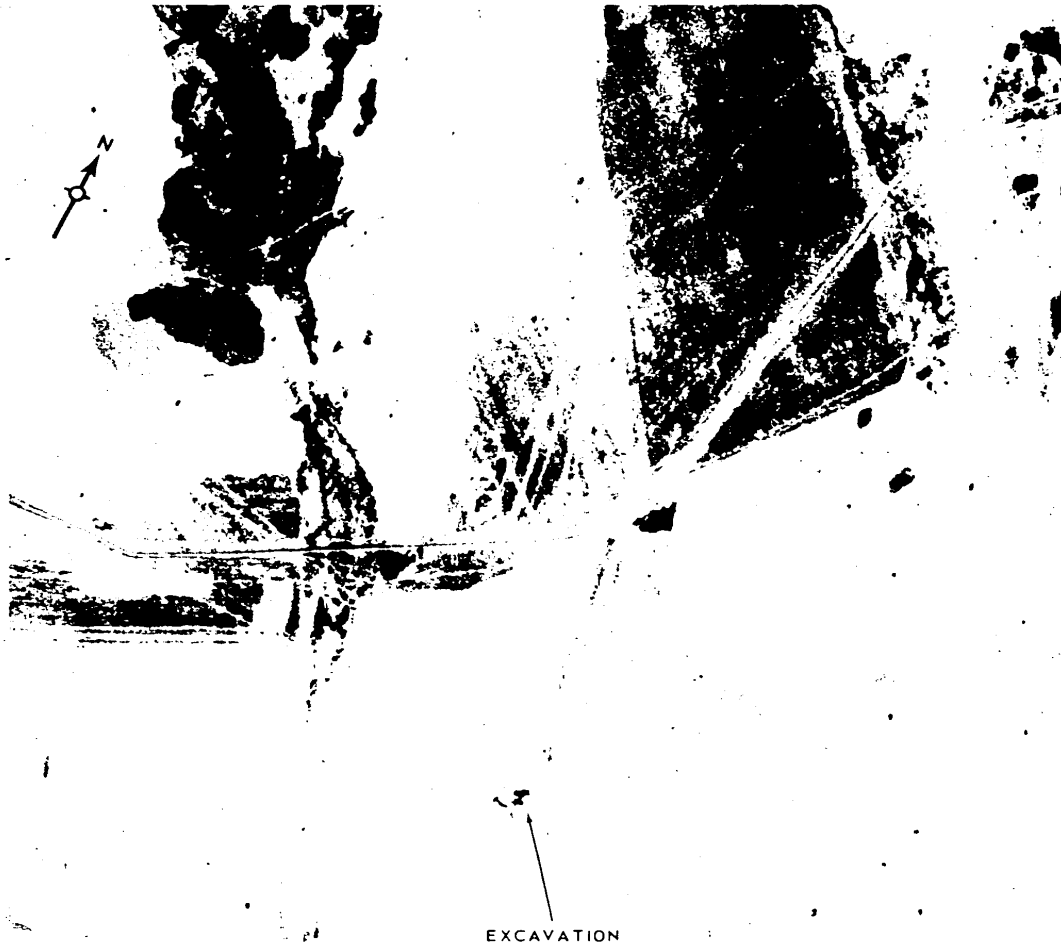
Attachments

TOP SECRET CHESS RUFF

Handle Via
TALENT-KEYHOLE
Control System Only

MISSION 1015-1, 20-24 DECEMBER 1964

TCS-80046 '65
ATTACHMENT 1



LAUNCH SITE D11, OLOVYANNAYA ICBM COMPLEX, USSR

REF ID: A6599 (12/64)

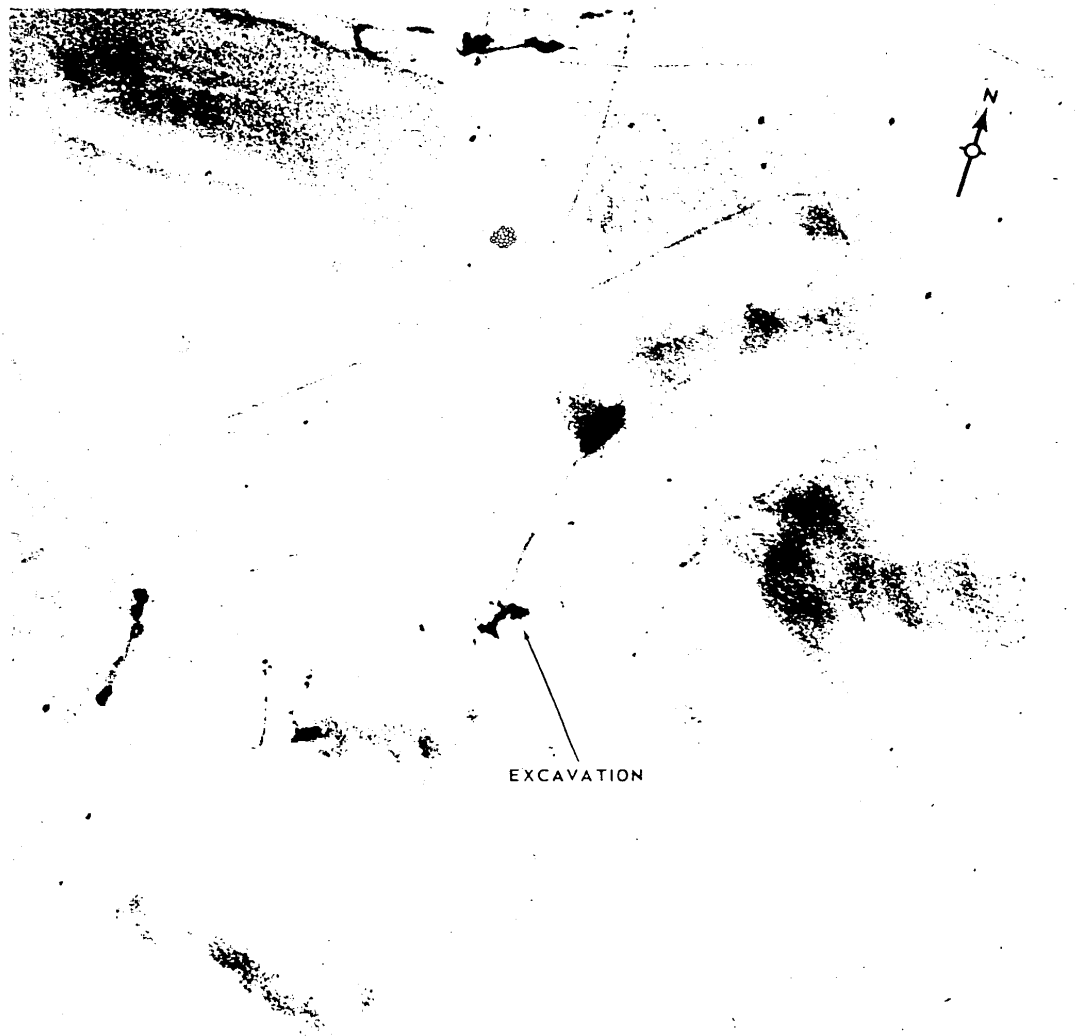
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

Handle Via
TALENT-KEYHOLE
Control System Only

MISSION 1015-1, 20-24 DECEMBER 1964

TCS-80046 65
ATTACHMENT 2



LAUNCH SITE D12, OLOVYANNAYA ICBM COMPLEX, USSR

NPIC 0-6600 (12/64)

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

Handle Via
TALENT KEYHOLE
Control System Only

MISSION 1015-1, 20-24 DECEMBER 1964

TCS-80046 '65
ATTACHMENT 3



LAUNCH AREA D, KARTALY ICBM COMPLEX, USSR

NPIC J-6601-112/641

TOP SECRET CHESS RUFF

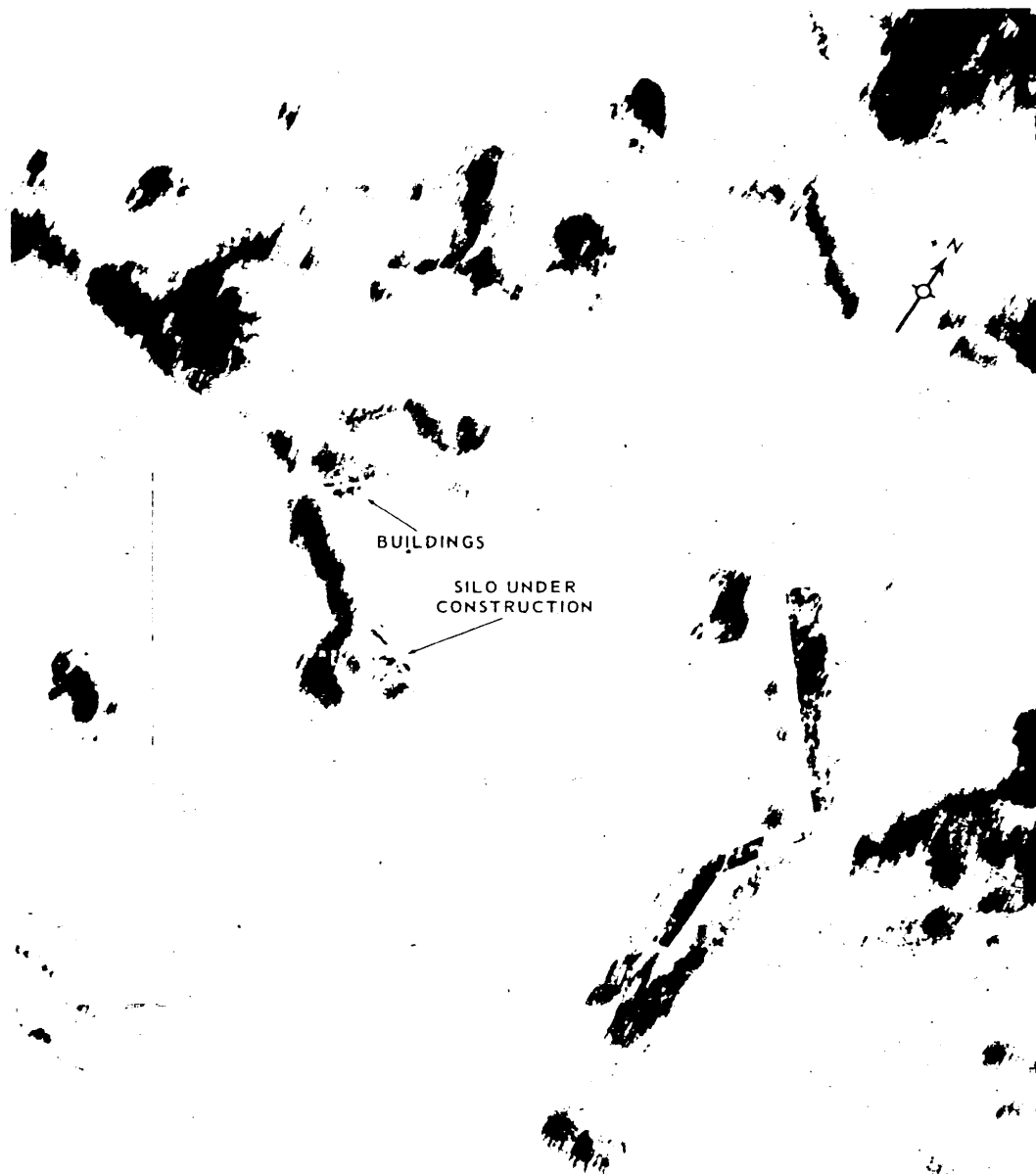
Handle Via
TALENT KEYHOLE
Control System Only

TOP SECRET CHESS RUFF

Handle Via
TALENT-KEYHOLE
Control System Only

MISSION 1015-1, 20-24 DECEMBER 1964

TCS-80046 65
ATTACHMENT 4



LAUNCH AREA E, KARTALY ICBM COMPLEX, USSR

NPIC J-6602 (12/64)

TOP SECRET CHESS RUFF

Handle Via
TALENT-KEYHOLE
Control System Only

TOP SECRET CHESS RUFF

MISSION 1015-1, 20-24 DECEMBER 1964

TCS-80046 65
ATTACHMENT 5



LAUNCH AREA F, KARTALY ICBM COMPLEX, USSR

NPIC 046624 (12/64)

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

Handle Via
Talent-Keyhole
Control System On

MISSION 1015-1, 20-24 DECEMBER 1964

TCS-80046 65
ATTACHMENT 6



KRASNOYARSK ROCKET ENGINE TEST FACILITY, USSR

REF ID: A67117 (12/64)

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

Handle Via
TALENT KEYHOLE
Control System Only

MISSION 1015-1, 20-24 DECEMBER 1964

TCS-80046 65
ATTACHMENT 7



OMSK ROCKET ENGINE TEST FACILITY, USSR

NPIC J-6606 (12/64)

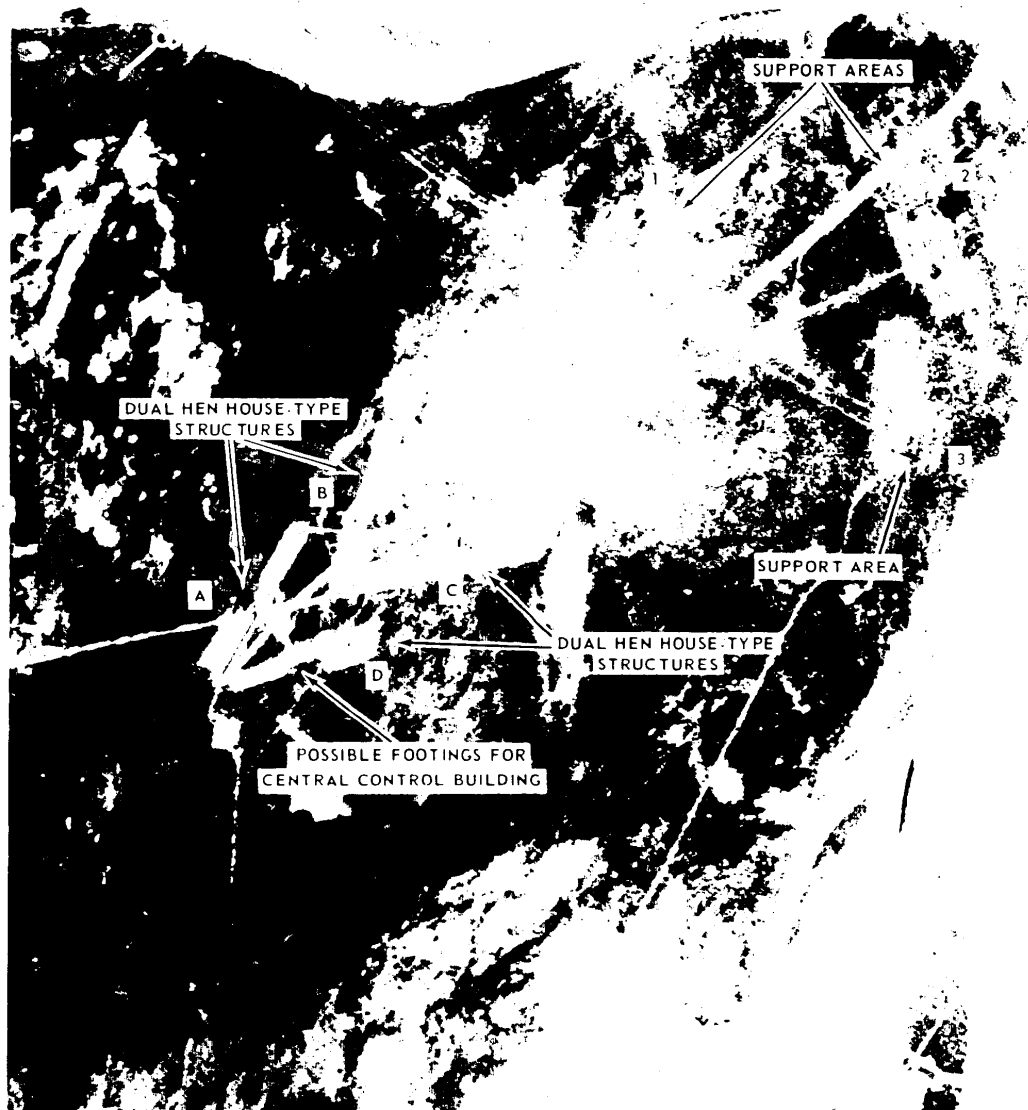
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

Handle via
TALENT-EXHOLE
Central System Only

MISSION 1015-1, 20-24 DECEMBER 1964

TCS-80046 65
ATTACHMENT 8



DUAL HEN HOUSE-TYPE STRUCTURES, ANGARSK, USSR

REF ID: A6627 (12/64)

TOP SECRET CHESS RUFF

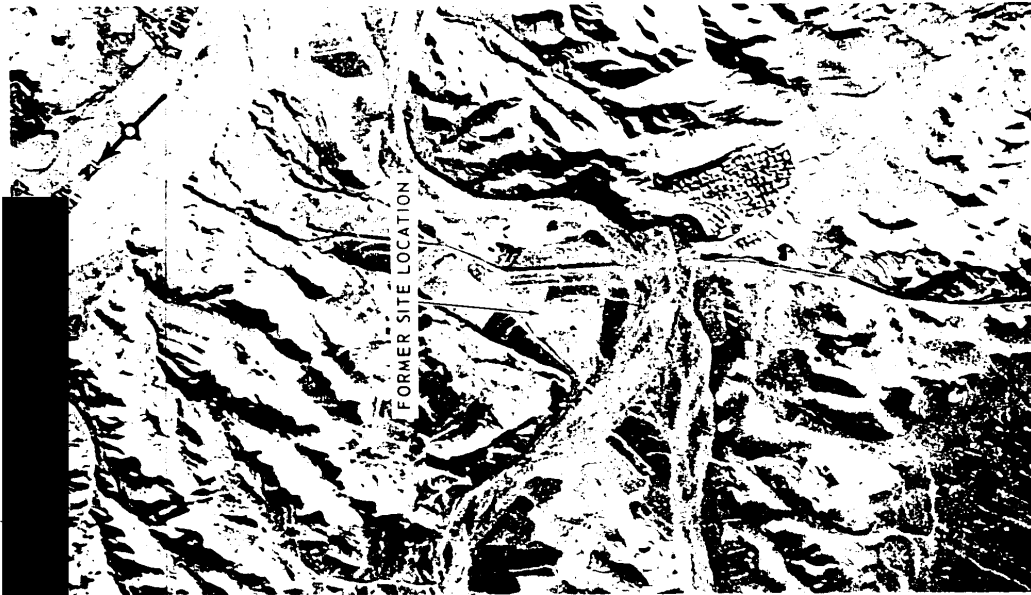
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Handle Via
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Control System Only

MISSION 1015-1, 20-24 DECEMBER 1964

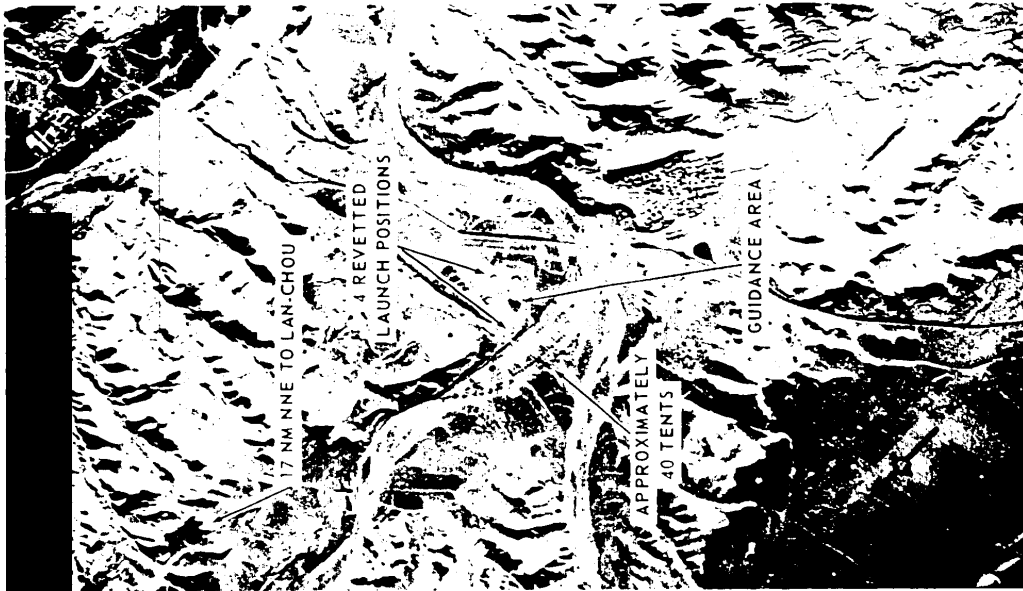
TCS-80046 65
ATTACHMENT 9

25X1D



SAM SITE B19-2, LAN-CHOU, CHINA

25X1D



NPIC J-6024 112/1143

TOP SECRET CHESS RUFF

Next 2 Page(s) In Document Exempt

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